

species as it now stands. The specimens from the Berl. Zool. Mus., described by Taschenberg, were found on *Herpestes ichneumon*, in Egypt. The same or a nearly related *Herpestes* is found in Socotra, and as its habits resemble in many ways those of the *Mus*, it is very easy to see how the same species of flea might occur on both.

*Pulex simulans*, n. sp.

Two specimens of this flea, taken from opossum (*Didelphis virginiana*), were sent to me by Mr. L. O. Howard, from the U. S. Dep. of Agriculture collection. Though distinct, yet it is very closely related to *P. irritans*, and might easily be confused with that species.

*Pulex irritans*, Linn.

1746. Linnæus, Faun. Suec. 2nd Ed., No. 1695.

This nearly cosmopolitan flea I have received from Mr. S. C. Dundore, of Lakeside, Cala., and through Mr. L. O. Howard, from Azura, Cala., at both of which localities it is common.

(TO BE CONTINUED)

## NOTES ON SOME REARED HYMENOPTERA, LARGELY PARASITIC, AND CHIEFLY FROM OHIO.

BY F. M. WEBSTER, WOOSTER, OHIO.

*Elachistus ohioensis* (MS.), Ashmead.—Reared from pupæ, in which stage it probably passes the winter; found November 7th, within the shells of beech-nuts, the kernels of which had been attacked and eaten by some kind of larva which had burrowed out these kernels, leaving only a mass of excrement. A hole in the shells indicated an attack similar to that of some species of *Balaninus*, though, as I found no larvæ of them, it was impossible to learn their exact nature. Locality, Wooster, Ohio.

*Cirrospilus flavicinctus*, Riley.—This was described in Lintner's First Report as being reared from *Bucculatrix pomifoliella*, Clemens, in Missouri, and also New York. My rearings were from *Aspidisca splendoriferella*, Clem., the cocoons of which were collected near Cleveland, Ohio.

*Aphidius chenopodiaphidis* (MS.), Ashmead.—This was reared from an Aphid found on the leaves of *Chenopodium album*, Linn., collected in the vicinity of Cleveland, Ohio, June 29th.

*Isocratus vulgaris*, Walker.—This and an undetermined *Apanteles* were reared with the species next following.

*Lysiphlebus salicaphis*, Fitch.—Reared August 24th from Aphid on Wahoo, *Euonymus atropurpureus*, Jacq., near Wooster, Ohio.

*Pachyneuron aphidivora*, Ashmead.—Reared from Aphid on leaves of *Liriodendron tulipifera*, Linn., collected in Bennett Woods, Cincinnati, Ohio, June 29th.

*Rhaphitelus maculatus*, Walker.—This was reared from *Scolytus rugulosus*, Ratz., burrowing in the trunks and larger limbs of fruit trees in Northern Ohio.

*Praon coloradensis*, Ashmead.—Reared from an Aphid on Gladiolus, August 8. Locality, Cleveland, Ohio.

*Elasmus nigrescens*, Ashmead.—Reared from cocoons on leaves received from Warren county, Southern Ohio. The leaves appeared to have been attacked by Fall Web-worm, though none of these caterpillars were present. Date of emerging, September 17.

*Eulophus tricolaus*, Prov.—Reared from mines of *Tischeria malifoliella*, Clem., in leaves of apple, received from near Schenectady, N.Y.

*Segnipiesis nigrifemora*, Ashmead.—Reared from the same host as the preceding species, and from the same locality, but from another lot of leaves.

*Microgaster xylinoides* (MS.), Ashmead.—Found, dead, in fold of leaf of Linden; Wooster, Ohio, October 15, 1894. The fold had been made by some leaf-folding larva, and extended along one of the lateral veins of the leaf.

*Habrocytus aulacis* (MS.), Ashmead.—Reared from stems of *Lactuca canadensis*, Linn., collected near Lodi, Ohio, October 26, 1894.

*Spilochalcis torvina*, Cresson.—This was reared from the rather conspicuous cocoon, which is dingy-white banded with black. Have collected similar cocoons in Tensas Parish, Louisiana, and also in Indiana. These were from near Cleveland, Ohio.

*Rhodites spinosa*, Ashmead.—(Described only from the galls.) Both sexes were reared from spiny galls on rose, growing along the edges of woods in Huron county, Ohio. Females emerged in the fields on May 11, and the males followed within a few days. Collected and reared May, 1894.

*Amblynotus iowensis*, Ashmead.—This was reared from a mass of grape leaves, affected by Phylloxera and collected along the shore of Lake Erie, near Cleveland, Ohio. From the same leaves a considerable number of *Hemerobius occidentalis*, Fitch, were also reared.

The determinations were made by Mr. W. H. Ashmead.